

COMPUTER SYSTEM

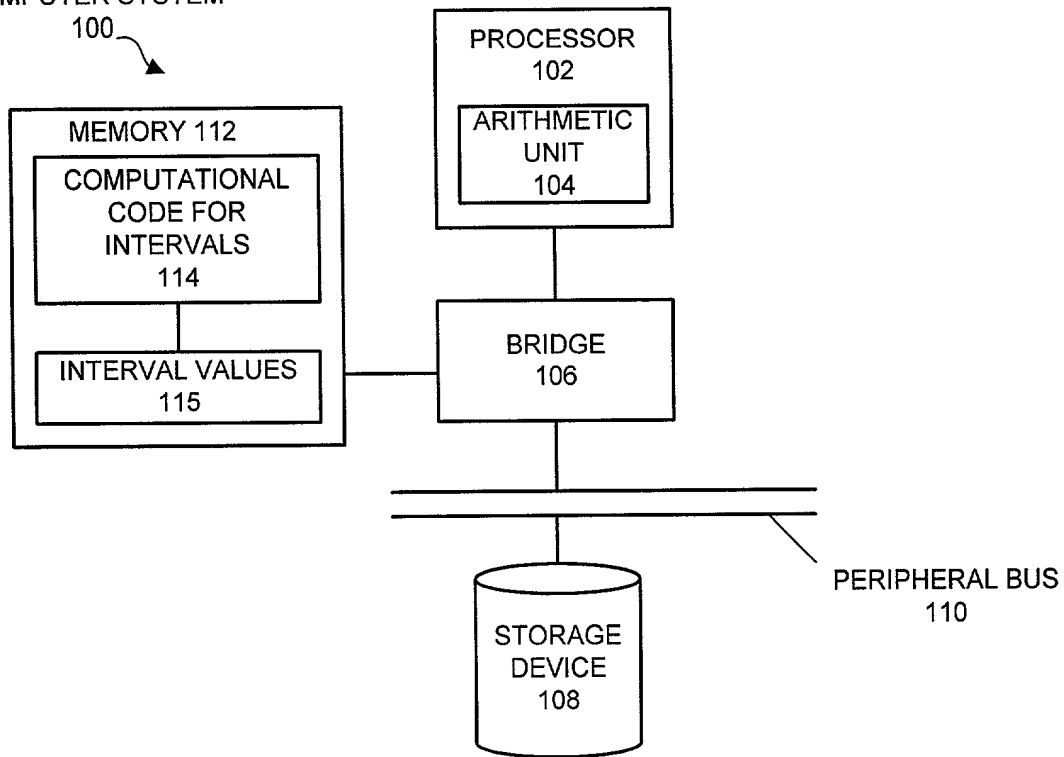


FIG. 1

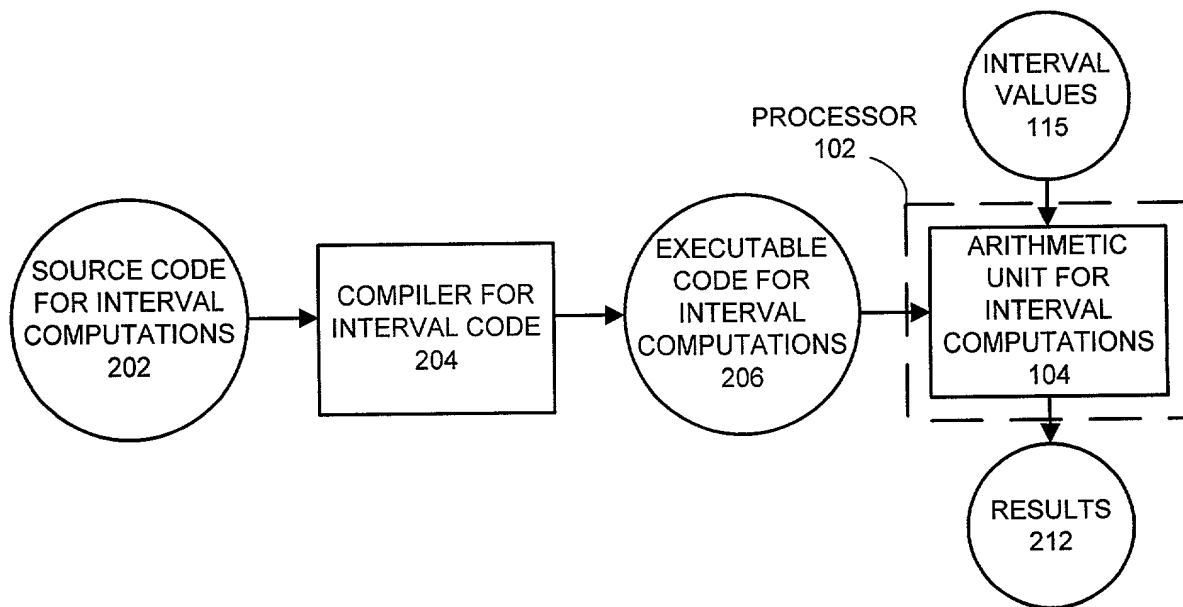


FIG. 2

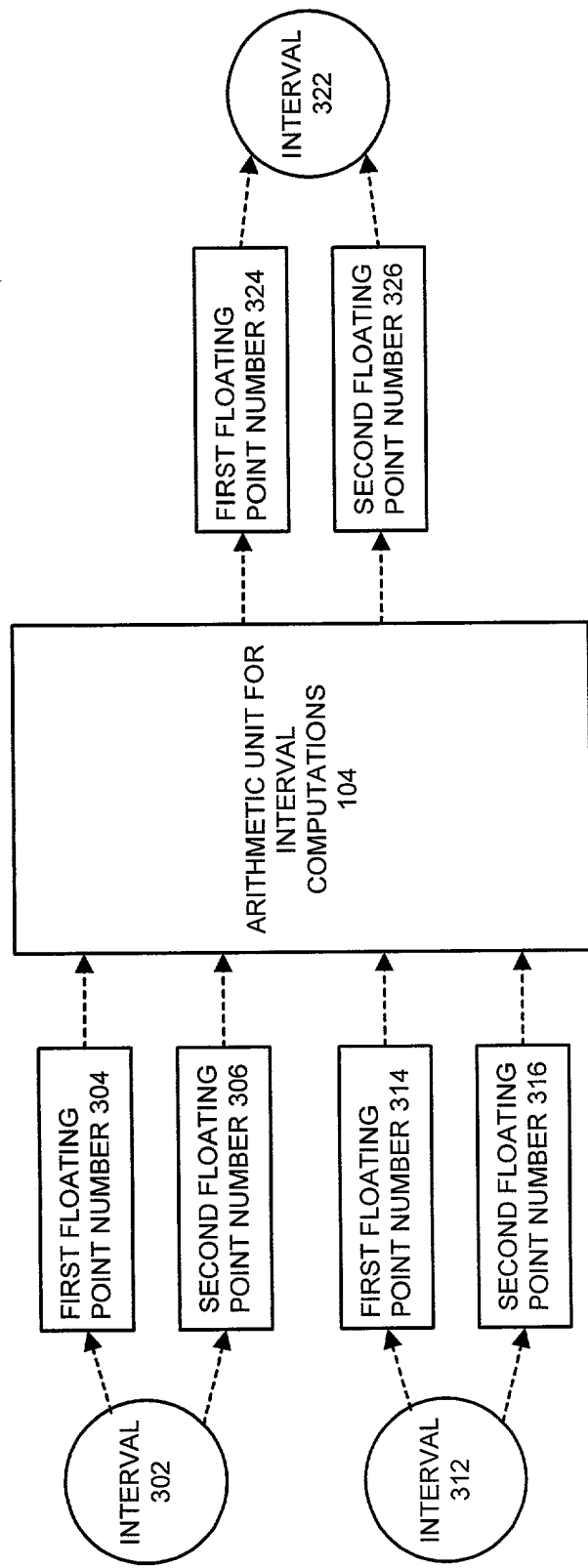


FIG. 3

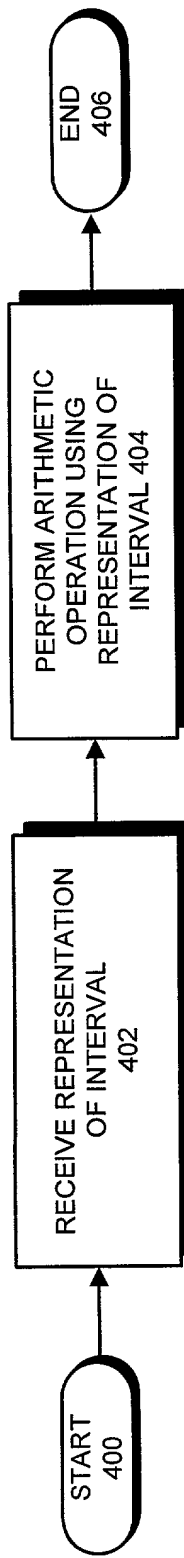


FIG. 4

$$\begin{aligned}
 X &\equiv [\underline{x}, \bar{x}] \equiv \{x \in \mathfrak{R}^* \mid \underline{x} \leq x \leq \bar{x}\} \\
 Y &\equiv [\underline{y}, \bar{y}] \equiv \{y \in \mathfrak{R}^* \mid \underline{y} \leq y \leq \bar{y}\} \\
 (1) \quad X + Y &= [\downarrow \underline{x} + \underline{y}, \uparrow \bar{x} + \bar{y}] \\
 (2) \quad X - Y &= [\downarrow \underline{x} - \bar{y}, \uparrow \bar{x} - \underline{y}] \\
 (3) \quad X \times Y &= [\min(\downarrow \underline{x} \times \underline{y}, \underline{x} \times \bar{y}, \bar{x} \times \underline{y}, \bar{x} \times \bar{y}), \max(\uparrow \underline{x} \times \underline{y}, \underline{x} \times \bar{y}, \bar{x} \times \underline{y}, \bar{x} \times \bar{y})] \\
 (4) \quad X / Y &= [\min(\downarrow \underline{x} / \underline{y}, \underline{x} / \bar{y}, \bar{x} / \underline{y}, \bar{x} / \bar{y}), \max(\uparrow \underline{x} / \underline{y}, \underline{x} / \bar{y}, \bar{x} / \underline{y}, \bar{x} / \bar{y})], \text{ if } 0 \notin Y \\
 X / Y &\subseteq \mathfrak{R}^*, \text{ if } 0 \in Y
 \end{aligned}$$

FIG. 5

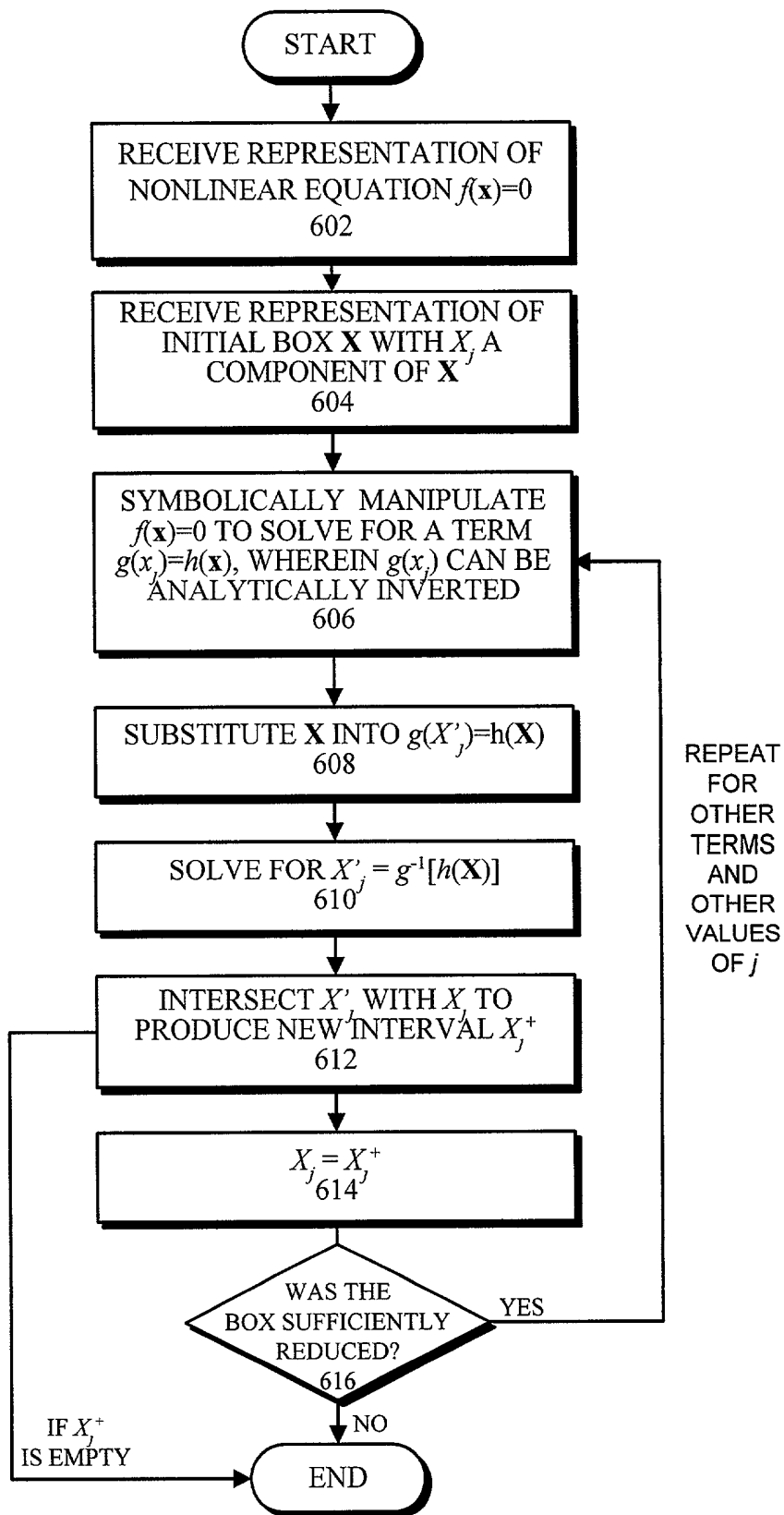


FIG. 6

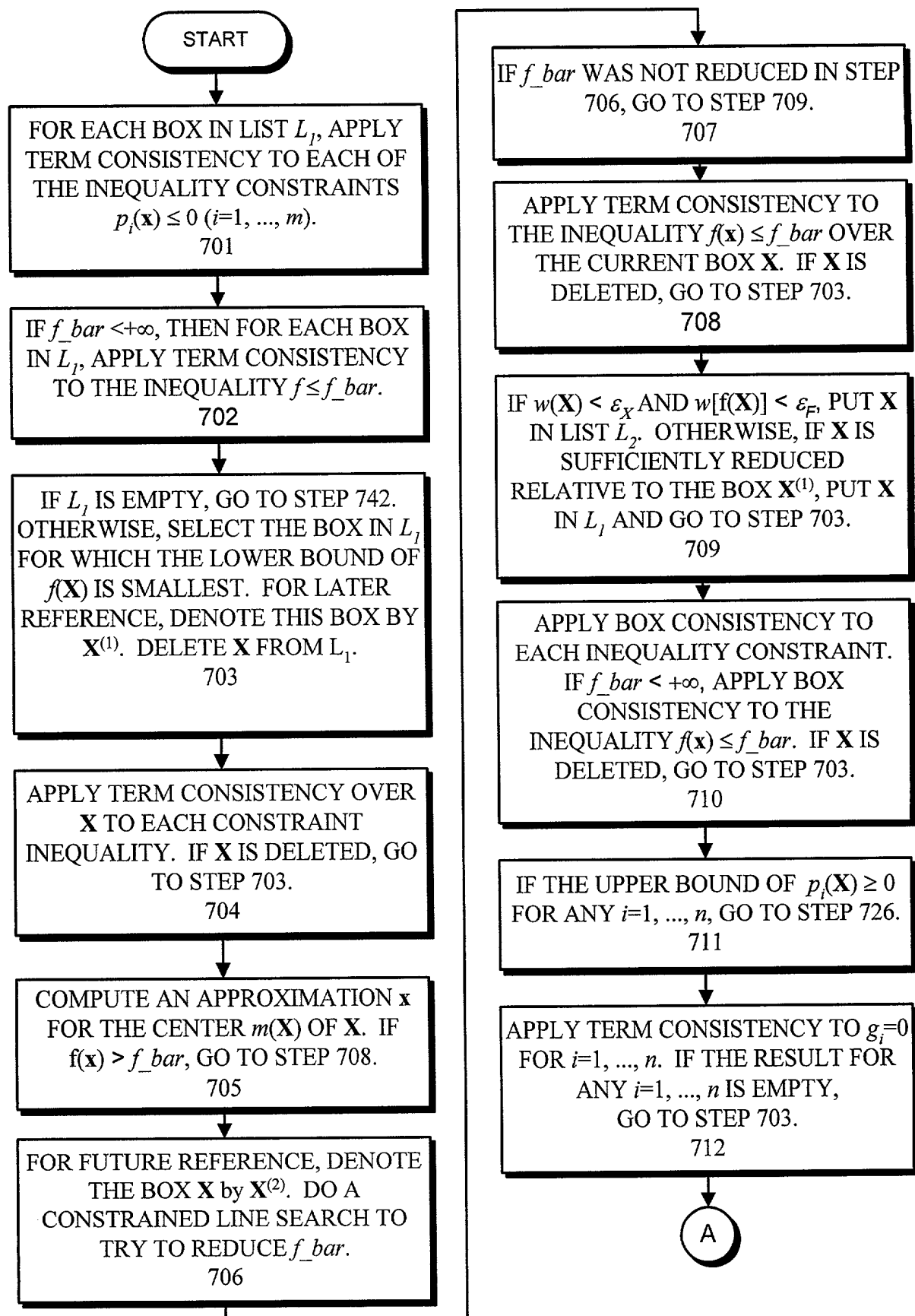


FIG. 7A

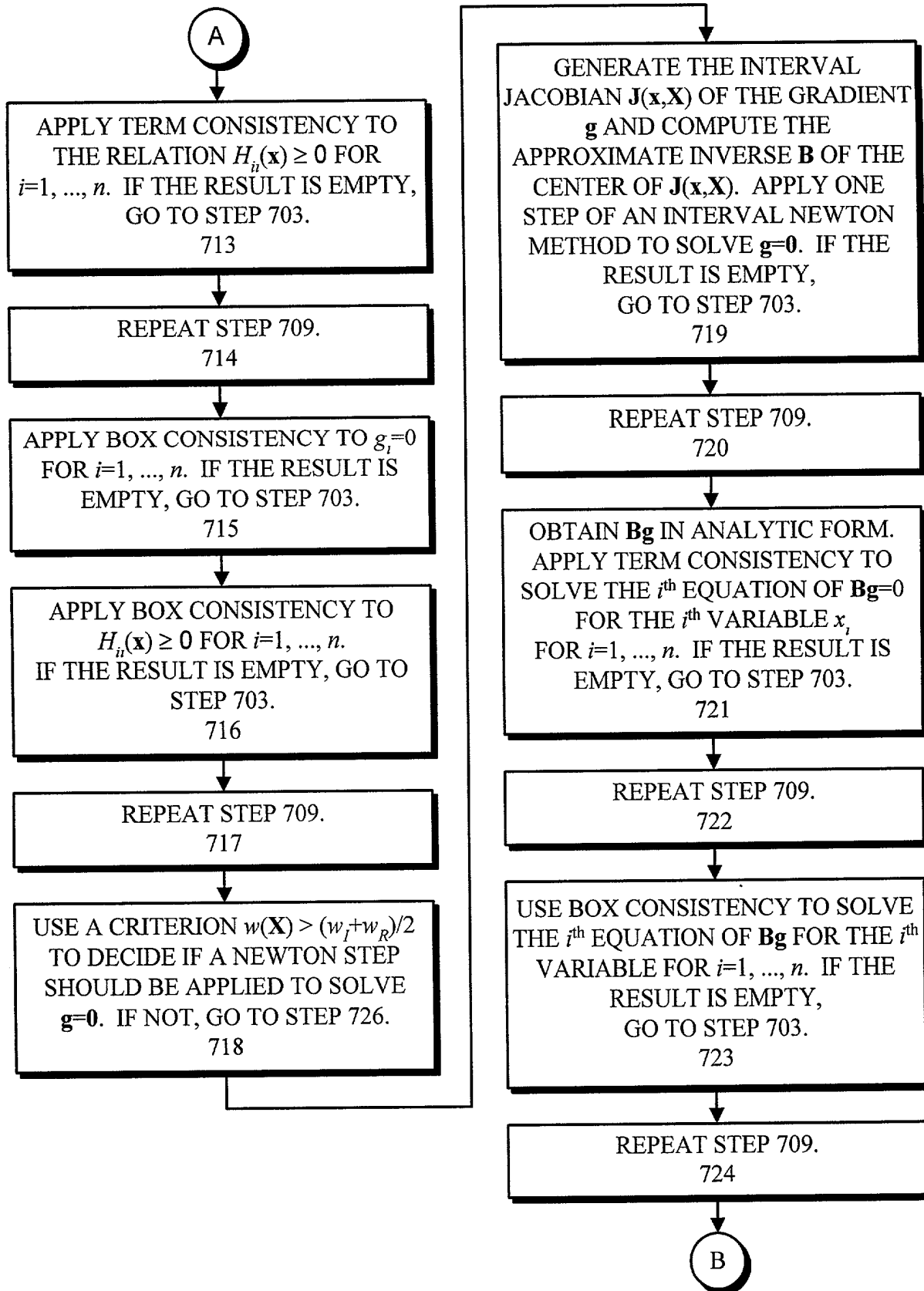


FIG. 7B

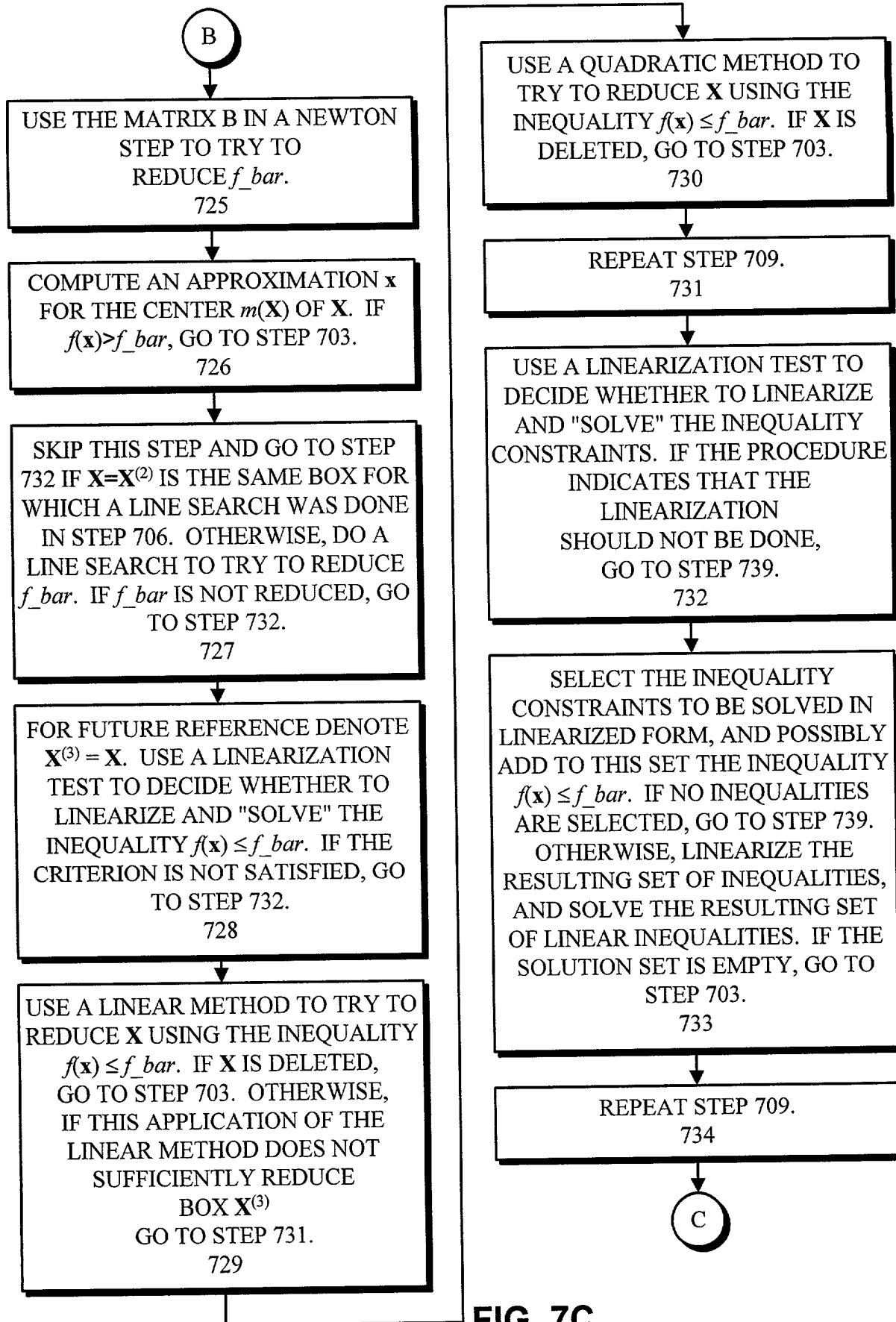


FIG. 7C

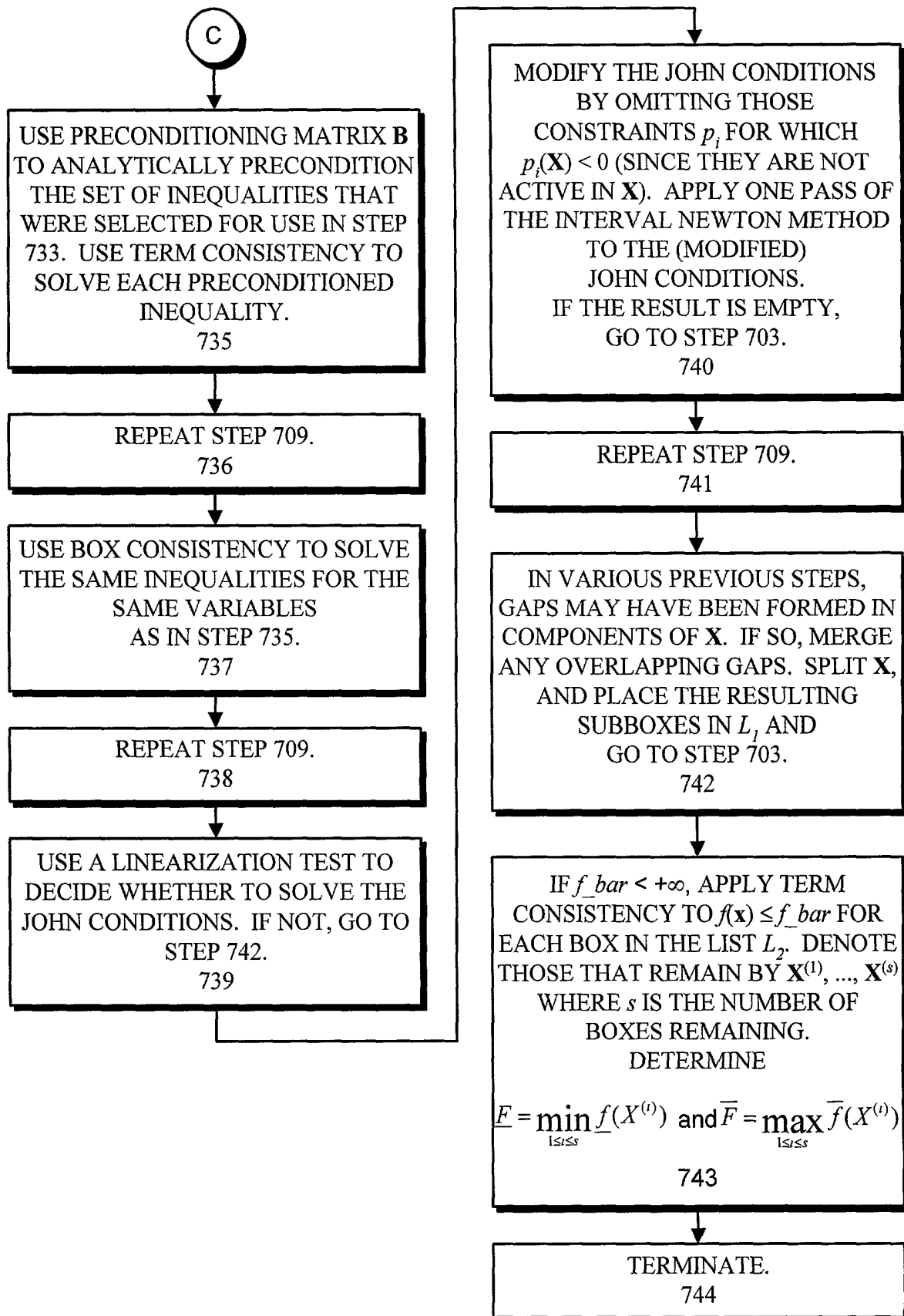


FIG. 7D